2.   amends independent claim 19 from that appearing in the January 13th Examiner's Amendment.

1.   (Previously presented in the January 13th Examiner's Amendment)   A digital logger system adapted for receiving and recording audio telecommunication signals, the digital logger system comprising: a multichannel interface circuit for concurrent-

5   ly and continuously receiving audio telecommunication signals for at least two telephone calls, and for continuously transmitting digital audio data extracted from the received audio telecommunication signals, the multichannel interface circuit including:

a.   line interfaces, equal in number to the number of

10   telephone lines from which the multichannel interface circuit receives audio telecommunication signals, for electronically conditioning the received audio telecommunication signals; and

b.   at least one COder and DECoder ("CODEC") which receives

15   conditioned audio telecommunication signals from the line interfaces for converting the received audio telecommunication signals into digital audio data, and for transmitting the digital audio data;

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a Universal Serial Bus ("USB") hub for receiving the digital

20 audio data continuously transmitted from the multichannel interface

circuit, and for transmitting the digital audio data to a USB root

hub; and

a personal computer ("PC") having the USB root hub that is

coupled to the USB hub, and which:

25   receives the digital audio data transmitted from the USB

hub; and

executes PC software that continuously monitors the

received digital audio data for:

decoding line status and signaling information

30   embedded in digital audio data to determine status of a

telephone line including a telephone line "going off

hook;" and

upon detecting a telephone line "going off

hook," recording both:

35   an audio header that stores information

about a telephone call; and

an audio file that stores compressed

digital audio data for the telephone call.

2.   (Canceled)

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3.   (Previously presented in the January 13th Examiner's Amendment)   The digital logger system of claim 1 wherein the CODEC is a stereo analog CODEC which simultaneously converts two separate received audio telecommunication signals into two separate

5   digital audio data, and transmits both of the digital audio data to the USB hub.

4.   (Previously presented in the January 13th Examiner's Amendment)   The digital logger system of claim 1 wherein the CODEC is a linear Pulse Code Modulation ("PCM") CODEC.

5.   (Canceled)

6.   (Original)   The digital logger system of claim 1 wherein the PC software includes a search engine which upon decoding of Dual-Tone Multifrequency ("DTMF") signaling for a telephone call initiates a real-time reverse-lookup which accesses

5   publicly accessible directories and business information.

7.   (Original)   The digital logger system of claim 1 wherein the PC software includes a search engine which upon decoding of Automatic Number Identification ("ANI") {also known as

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Caller ID ("CID")} for a telephone call initiates a real-time

5 reverse-lookup which accesses publicly accessible directories and

business information.

8.   (Original)   The digital logger system of claim 1

wherein the PC software includes a search engine which upon

decoding of Automatic Location Identification ("ALI") for a

telephone call initiates a real-time reverse-lookup which accesses

5 publicly accessible directories and business information.

9.   (Original)   The digital logger system of claim 1

wherein upon the PC software detecting a telephone line "going off

hook," the PC software transmits digital audio data to the

multichannel interface circuit which causes the multichannel

5 interface circuit to transmit an audible announcement to a caller

via that telephone line.

10.   (Previously presented in the January 13th Examiner's

Amendment)   A signal processor adapted for use with a PC that

includes a USB root hub, and that executes PC software for

continuously monitoring digital audio data received via the USB

5 root hub of audio telecommunication signals, the PC software:

decoding line status and signaling information embedded

in digital audio data to determine status of a telephone line

including a telephone line "going off hook;" and

upon detecting a telephone line "going off hook,"

10   recording both:

an audio header that stores information about

a telephone call; and

an audio file that stores compressed digital

audio data for the telephone call;

15   the signal processor comprising:

a multichannel interface circuit for concurrently and

continuously receiving audio telecommunication signals for at least

two telephone calls, and for continuously transmitting digital

audio data extracted from the received audio telecommunication

20   signals, the multichannel interface circuit including:

a.   line interfaces, equal in number to the number of

telephone lines from which the multichannel interface

circuit receives audio telecommunication signals, for

electronically conditioning the received audio telecommu-

25   nication signals; and

b.   at least one CODEC which receives conditioned audio

telecommunication signals from the line interfaces for

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30

converting the received audio telecommunication signals
into digital audio data, and for transmitting the digital
audio data; and

a USB hub for receiving the digital audio data continuously
transmitted from the multichannel interface circuit, and for
transmitting the digital audio data to the USB root hub of the PC.

11.   (Canceled)

12.   (Previously presented in the January 13th Examiner's
Amendment)   The signal processor of claim 10 wherein the CODEC
is a stereo analog CODEC which simultaneously converts two separate
received audio telecommunication signals into two separate digital

5   audio data, and transmits both of the digital audio data to the USB
hub.

13.   (Previously presented in the January 13th Examiner's
Amendment)   The signal processor of claim 10 wherein the CODEC
is a linear PCM CODEC.

14.   (Canceled)

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15.   (Previously presented in the January 13th Examiner's Amendment)   In a digital logger system adapted for receiving and recording audio telecommunication signals, the digital logger system including a PC which executes PC software that:

5   monitors digital audio data of audio telecommunication signals for line status and signaling information embedded in digital audio data to determine status of a telephone line including a telephone line "going off hook;" and

        upon detecting a telephone line "going off hook," records

10   both:

              an audio header that stores information about a telephone call; and

              an audio file that stores compressed digital audio data for the telephone call,

15 the improvement comprising:

    a search engine which, upon decoding of appropriate signaling information for a telephone call that is selected from a group consisting of DTMF signaling, ANI (also known as CID), and ALI, initiates a real-time reverse-lookup that accesses publicly

20 accessible directories and business information.

    16.   (Canceled)

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17.   (Canceled)

18.   (Canceled)

19.   (Currently amended) A digital logger system adapted for receiving and recording audio telecommunication signals, the digital logger system comprising:

    a.   an interface circuit that includes:

5

        i.   a line interface for electronically conditioning the received audio telecommunication signal; and

        ii.   a CODEC̶ for receiving the conditioned audio telecommunication signal, for converting the received audio telecommunication signal into linearly coded

10

           digital audio data, and for transmitting the linearly coded digital audio data extracted from the received audio telecommunication signal; and

    b.   a PC which:

        i.   receives the linearly coded digital audio data transmitted from the interface circuit; and

15

        ii.   executes PC software that monitors the received digital audio data for:

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A.   decoding line status and signaling information
       embedded in digital audio data to determine
20   status of a telephone line including a tele-
       phone line "going off hook;" and

B.   upon detecting a telephone line "going off
       hook," recording an audio file that stores
       digital audio data for the telephone call
25   after first converting the linearly coded
       digital audio data into μLaw compressed digi-
       tal audio data.

    20.   (Previously amended)   The digital logger system of
claim 19 wherein:

    the interface circuit includes a USB hub for receiving the
digital audio data transmitted from the interface circuit, and for
5 transmitting the digital audio data to a USB root hub; and

    the PC includes the USB root hub that is coupled to the USB
hub for receiving the digital audio data transmitted from the USB
hub.

    21.   (Canceled)

22. (Original)   The digital logger system of claim 19
wherein the CODEC is a stereo analog CODEC which simultaneously
converts two separate received audio telecommunication signals into
two separate digital audio data for transmission from the interface
5 circuit to the PC.

23. (Previously presented in the January 13th Examiner's
Amendment)   A method for receiving and recording audio telecom-
munication signals, the method comprising the steps of:

    a.   within a signal processor:

5   i.   concurrently and continuously receiving an audio
            telecommunication signal for at least one telephone
            call;

        ii.   electronically conditioning the received audio
            telecommunication signal;

10   iii. converting the conditioned audio telecommunication
            signal into linearly coded digital audio data;

        iv,   continuously transmitting the linearly coded digi-
            tal audio data extracted from the received audio
            telecommunication signals to a PC;

15   b.   within the PC:

        i.   receiving the linearly coded digital audio data;

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    ii. continuously monitoring the received digital audio data:

20

    iii. decoding line status and signaling information embedded in the continuously monitor digital audio data to determine status of a telephone line including a telephone line "going off hook;" and

    iv. upon detecting a telephone line "going off hook," recording both:

25

    A) an audio header that stores information about a telephone call; and

    B) an audio file that stores compressed digital audio data for the telephone call.

24. (Canceled)

25. (Original)   The method of claim 23 further comprising the step of, upon decoding DTMF signaling for a telephone call, initiating a real-time reverse-lookup which accesses publicly accessible directories and business information.

26. (Original)   The method of claim 23 further comprising the step of, upon decoding ANI (also known as CID) for a telephone

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